

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04487

SHEET 1 OF 1

DWG NO. 647.7800

REV: NC

PREPARED BY

J. SOTO

DATE: 04/07/2014

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: BRACKET

APPROVED BY:

ENGR *[Signature]*

MFG

*[Signature]*

QC

*[Signature]*

EFF.

NEXT ORDER

TRANSACTION CODES (TC):  
A-ADD  
C-CREATE  
R-REVISE  
D-DELETE

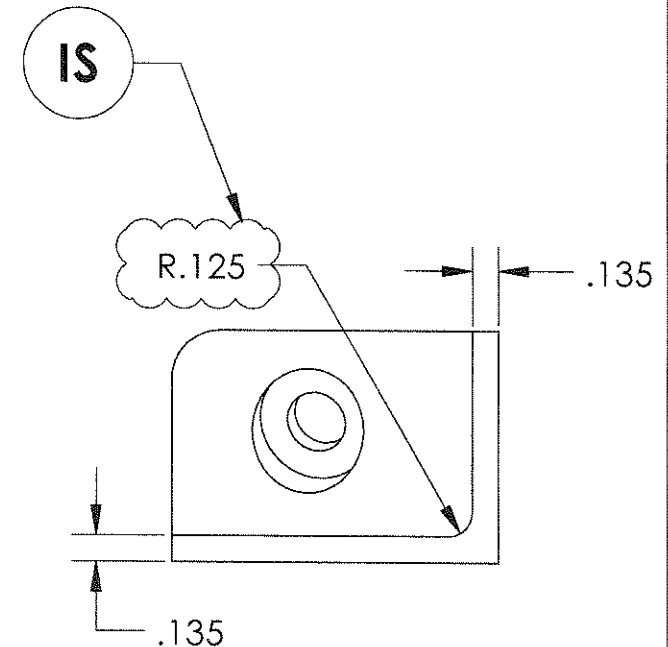
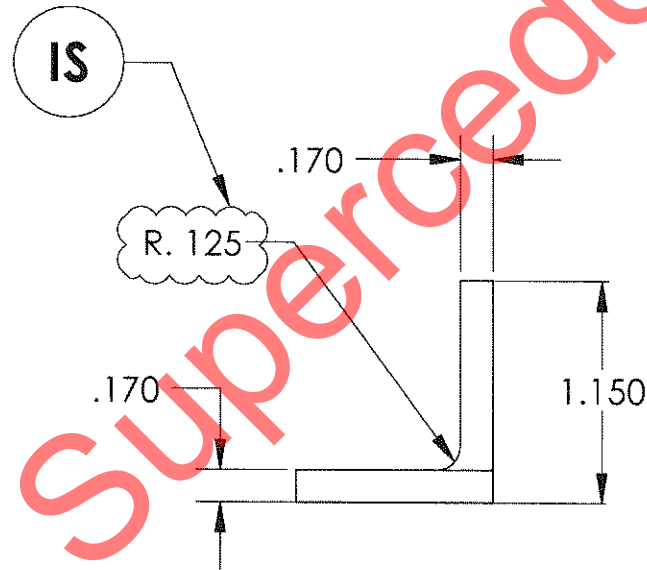
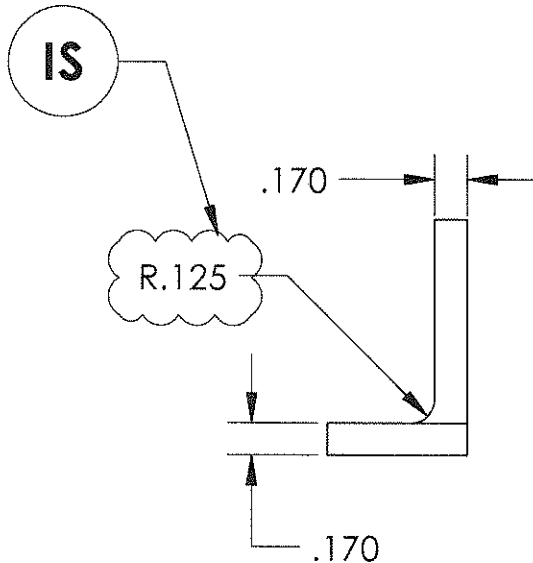
REASON: REVISED DRAWING DIMENSIONS.

ECR: D-14-03

SHEET 4, ZONE B5 IS:

SHEET 5, ZONE C4 IS:

SHEET 9, ZONE D1 IS:



DOCUMENTS EFFECTED:

☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☐ BOM

CHANGE CATEGORY

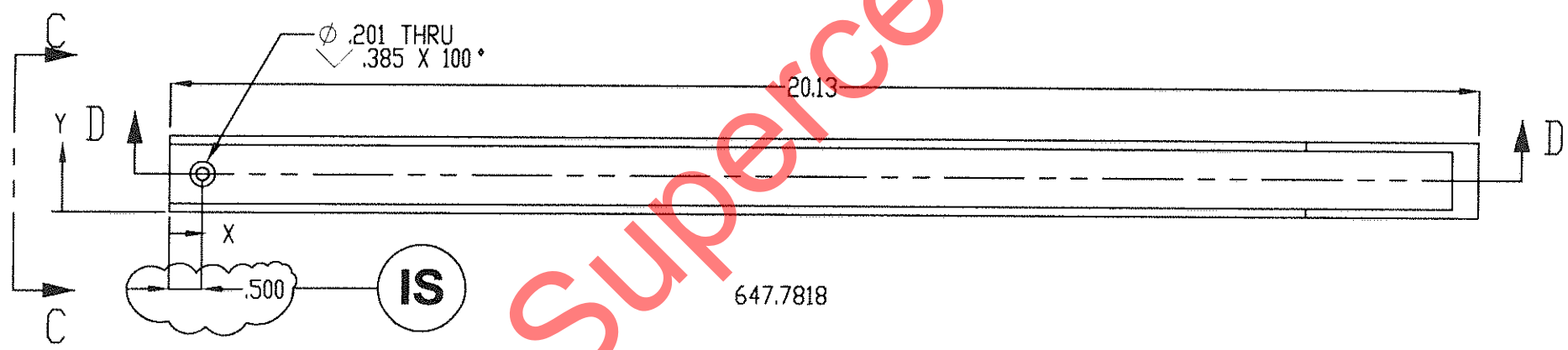
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTIC NO. 03128				SHEET 1 OF 1	
	DWG NO. 647.7800	REV: NC	PREPARED BY E. CASTELLANI	DATE: 06/06/11	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: BRACKET					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED MISSING DIMENSION ON 647.7818.				

SHEET 6, ZONE B1:



F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION			
DOCUMENTS EFFECTED:					CHANGE CATEGORY		DER REVIEW REQUIRED		
					<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input type="checkbox"/> BOM		<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR		
							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR2		N/C
N/C	INITIAL RELEASE	12-21-09	P. BRAVO

NOTES:

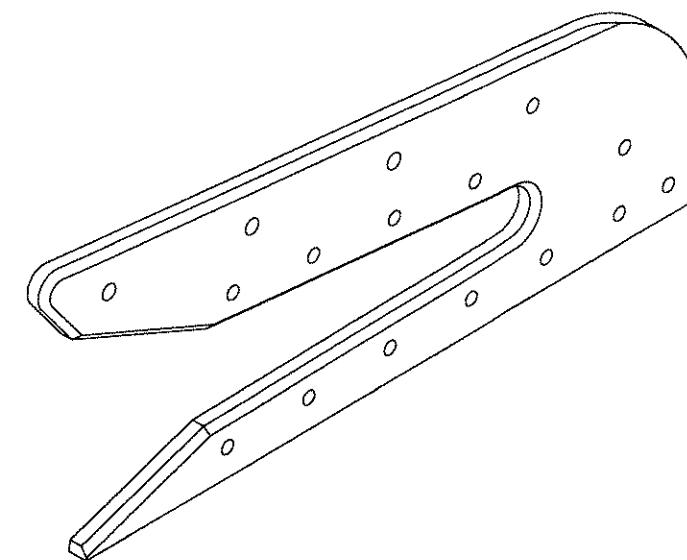
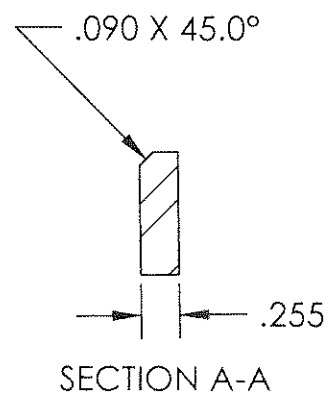
- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: ANODIZE PER MIL STD-A-8625, TYPEIII, CLASS 2, COLOR BLACK  
CARDINAL 4860-50 PRETREATMENT PRIMER  
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

UNINCORPORATED ECN(s)

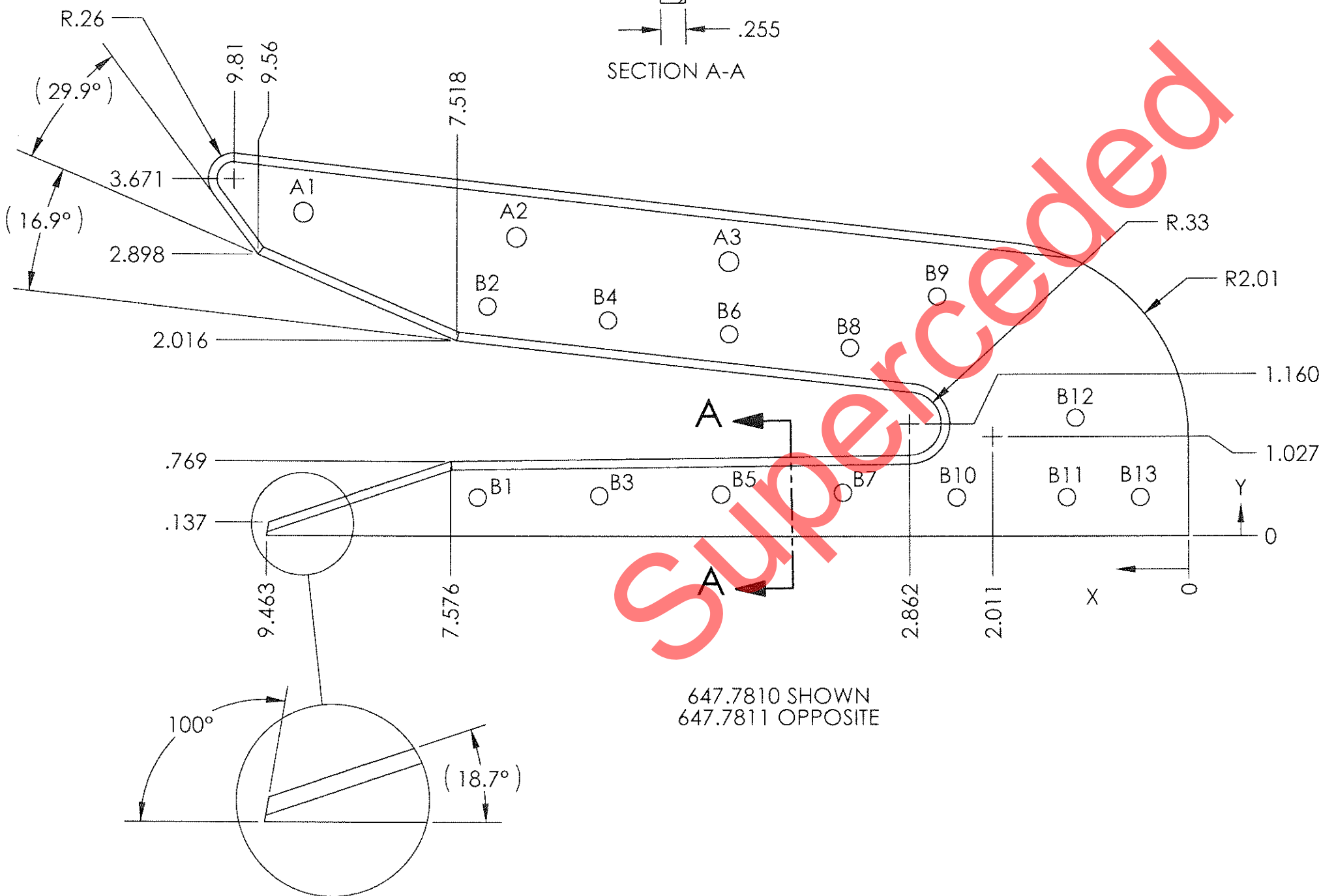
03128, 04487,

		647.7822	EYE BOLT FITTING RH	△	△
		647.7821	EYE BOLT FITTING LH	△	△
		647.7820	CROSS BRACKET AFT	△	△
		647.7819	CROSS BRACKET FWD	△	△
		647.7818	MOUNTING CHANNEL	△	△
		647.7817	AFT BRACKET	△	△
		647.7816	AFT BRACKET	△	△
		647.7815	FORWARD BRACKET	△	△
		647.7814	FORWARD BRACKET	△	△
		647.7813	CENTER PLATE LOWER	△	△
		647.7812	CENTER PLATE UPPER	△	△
		647.7811	BRACKET B	△	△
		647.7810	BRACKET A	△	△
	F/N	PART #	DESCRIPTION	MAT'L	SPEC
QTY	PARTS LIST				
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR)	11-05-09	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
647.7300		DRAWN BY	CHECKER		
647.7400		E. ANDERSSON	P. BRAVO		
		DRAWING APPROVAL	12-21-09		
		P. BRAVO		BRACKET	
		CONTRACT NO.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE	REV.
				B 07M26	N/C
				DWG. NO.	
				647.7800	
				SCALE	SHEET
				NONE	1 OF 9

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647.7810  
647.7811 OPPOSITE



647.7810 SHOWN  
647.7811 OPPOSITE

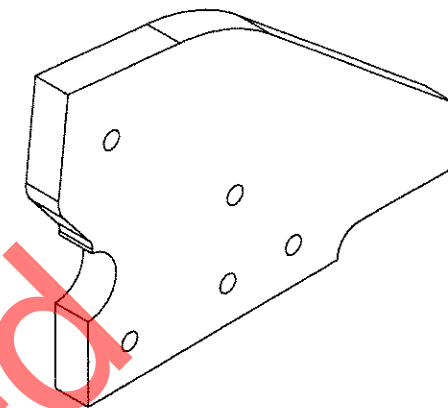
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A3	4.720	2.835±.002	Ø.201 THRU
B1	7.300±.002	.397±.002	Ø.177 THRU
B2	7.203±.002	2.369±.002	Ø.177 THRU
B3	6.050±.002	.415±.002	Ø.177 THRU
B4	5.961±.002	2.228±.002	Ø.177 THRU
B5	4.800±.002	.433±.002	Ø.177 THRU
B6	4.719±.002	2.088±.002	Ø.177 THRU
B7	3.550	.450	Ø.177 THRU
B8	3.476	1.947	Ø.177 THRU
B9	2.575	2.475	Ø.177 THRU
B10	2.380	.400	Ø.177 THRU
B11	1.250	.400	Ø.177 THRU
B12	1.160	1.220	Ø.177 THRU
B13	.500	.400	Ø.177 THRU

ORIGINAL DATE (MO-DA-YR) 11-05-09		APICAL INDUSTRIES	
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		BRACKET	
CONTRACT No.		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	REV. N/C
		CAGE CODE 07M26	DWG. NO. 647.7800
		SHEET 2 OF 9	

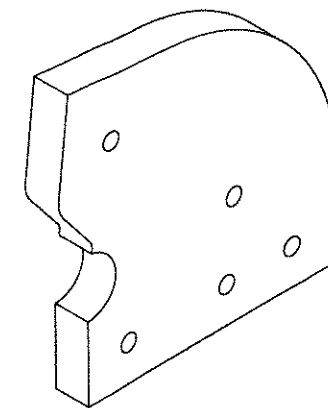
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

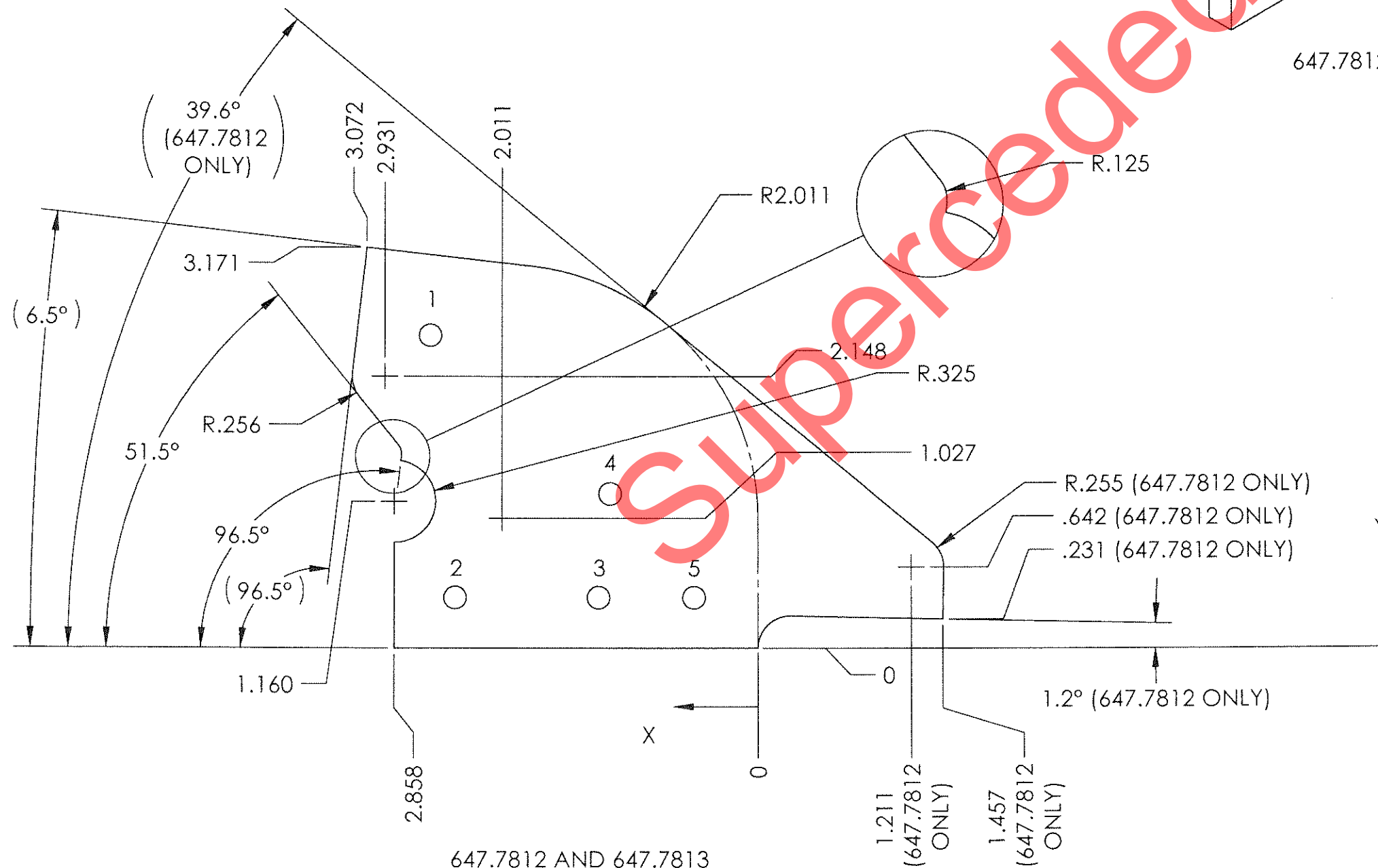
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3	1.250±.002	.400±.002	Ø.177 THRU
4	1.160±.002	1.220±.002	Ø.177 THRU
5	.500±.002	.400±.002	Ø.177 THRU



647.7812



647.7813



647.7812 AND 647.7813

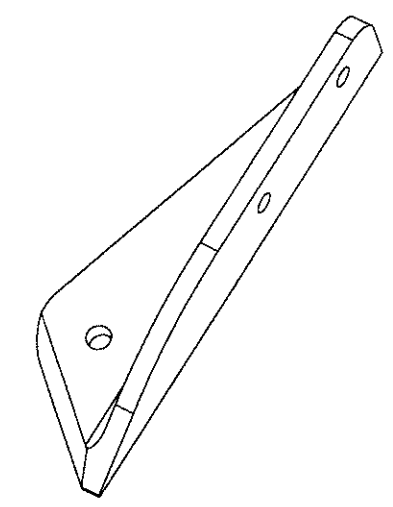
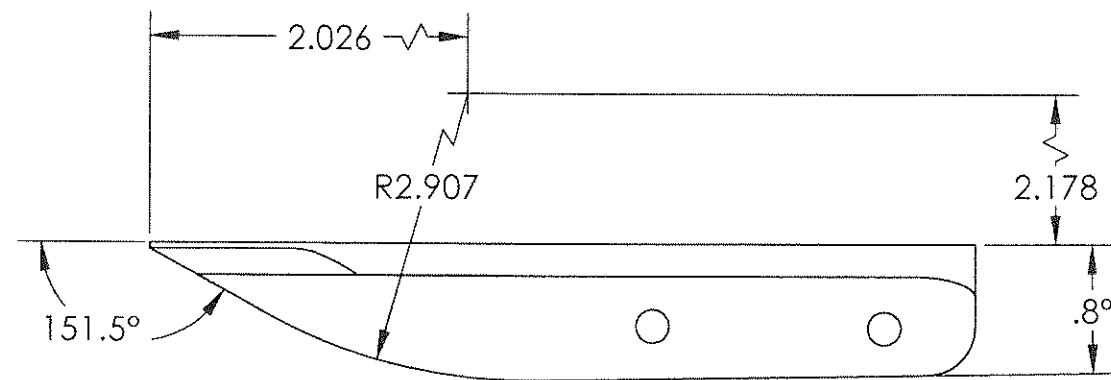


.375±.002

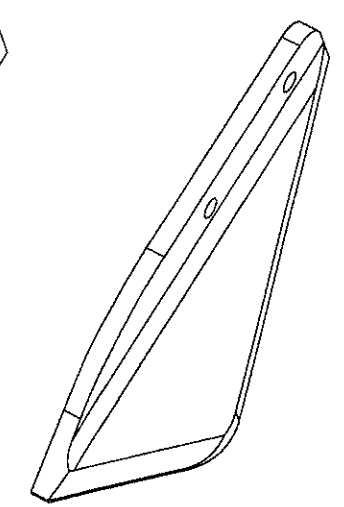
ORIGINAL DATE (MO-DA-YR) 11-05-09		APICAL INDUSTRIES	
DRAWN BY E. ANDERSSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		BRACKET	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.7800	
CONTRACT NO.		REV. N/C	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	SCALE NONE
		CAGE CODE 07MZ6	SHEET 3 OF 9

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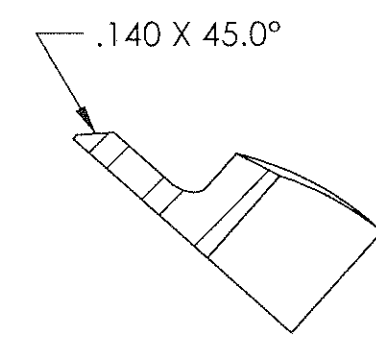
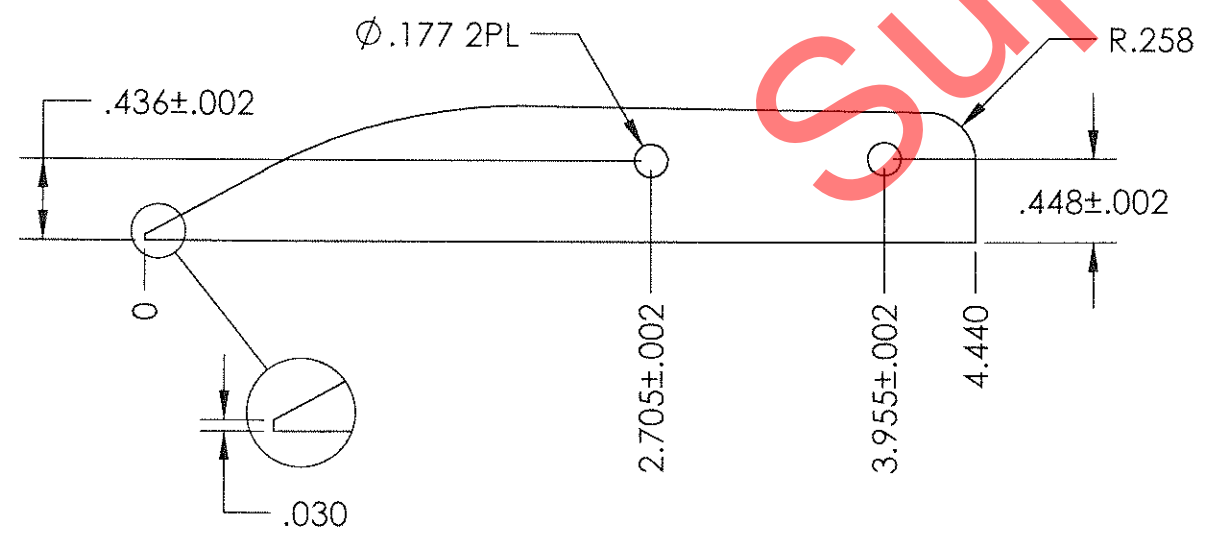
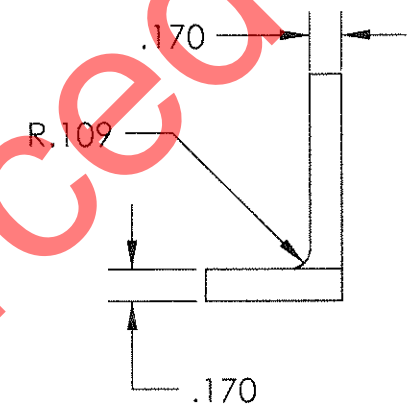
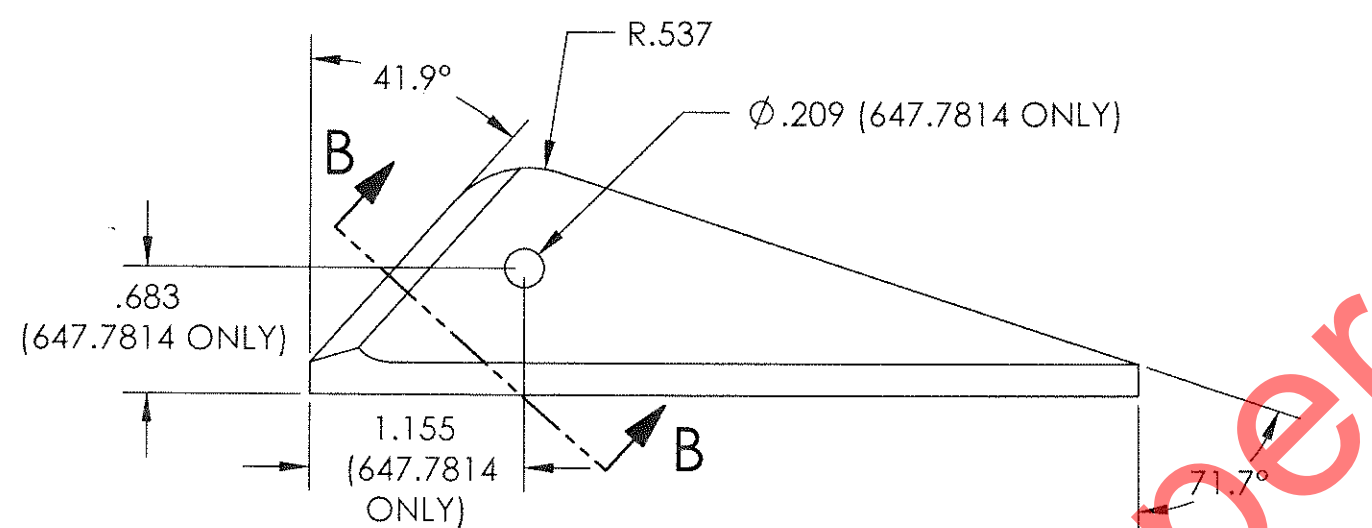
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



647.7814



647.7815



SECTION B-B

647.7814 SHOWN  
647.7815 OPPOSITE

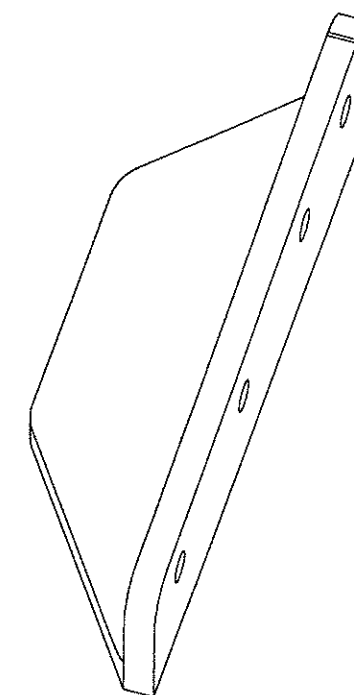
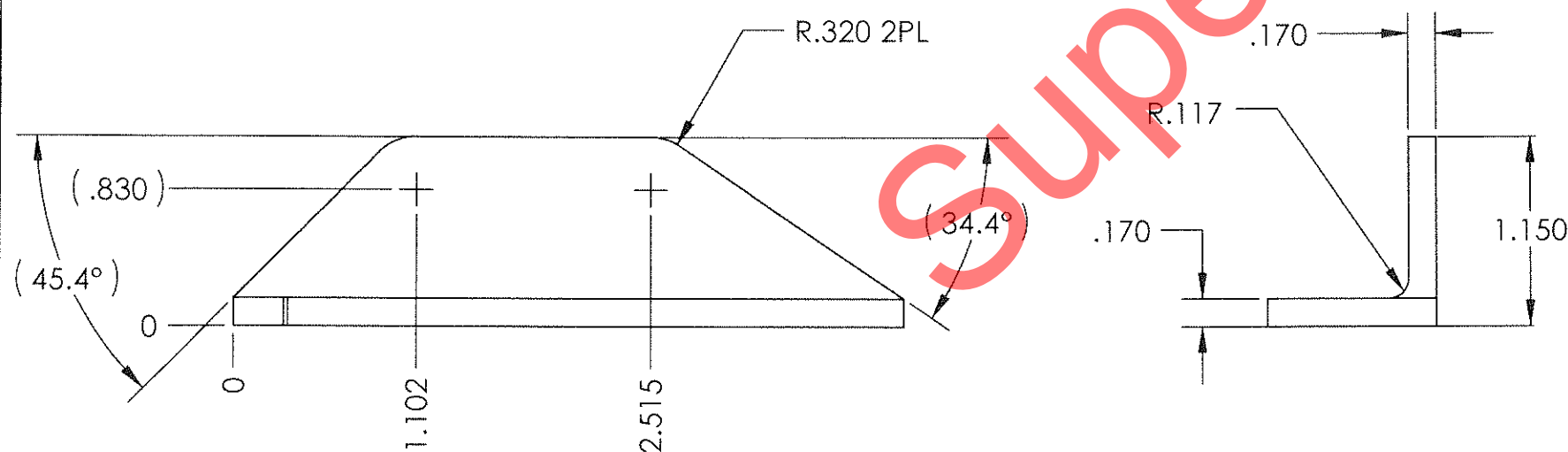
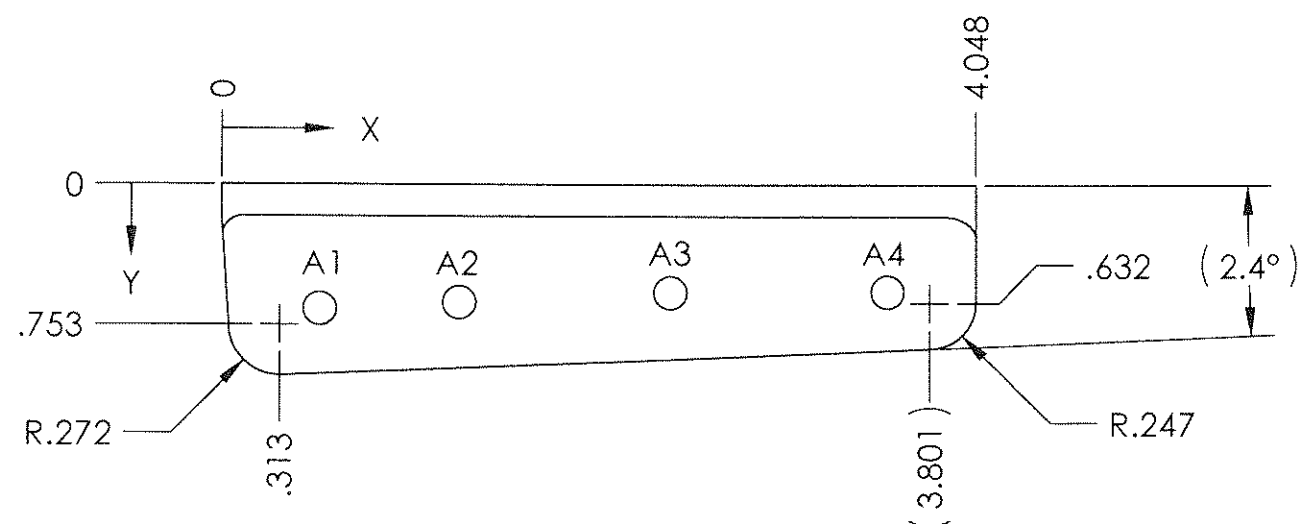
ORIGINAL DATE (MO-DA-YR) 11-05-09		APICAL INDUSTRIES	
DRAWN BY E. ANDERSSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CHECKER P. BRAVO		BRACKET	
DRAWING APPROVAL P. BRAVO		CONTRACT No.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. N/C
		CAGE CODE 07M26	DWG. NO. 647.7800
		SCALE NONE	SHEET 4 OF 9



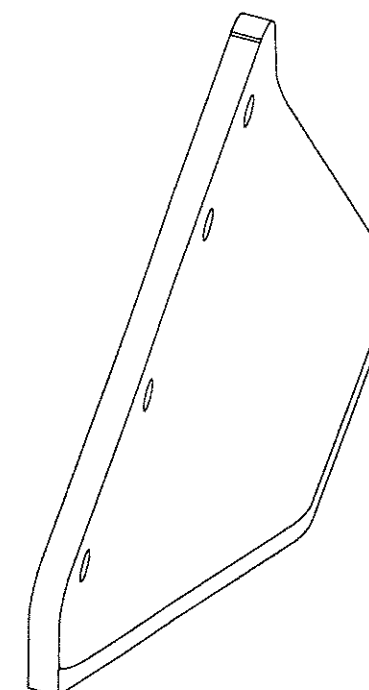
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

TAG	X LOC	Y LOC	SIZE
A1	.527±.002	.666±.002	Ø.177 THRU
A2	1.276±.002	.631±.002	Ø.177 THRU
A3	2.404±.002	.578±.002	Ø.177 THRU
A4	3.576±.002	.573±.002	Ø.177 THRU



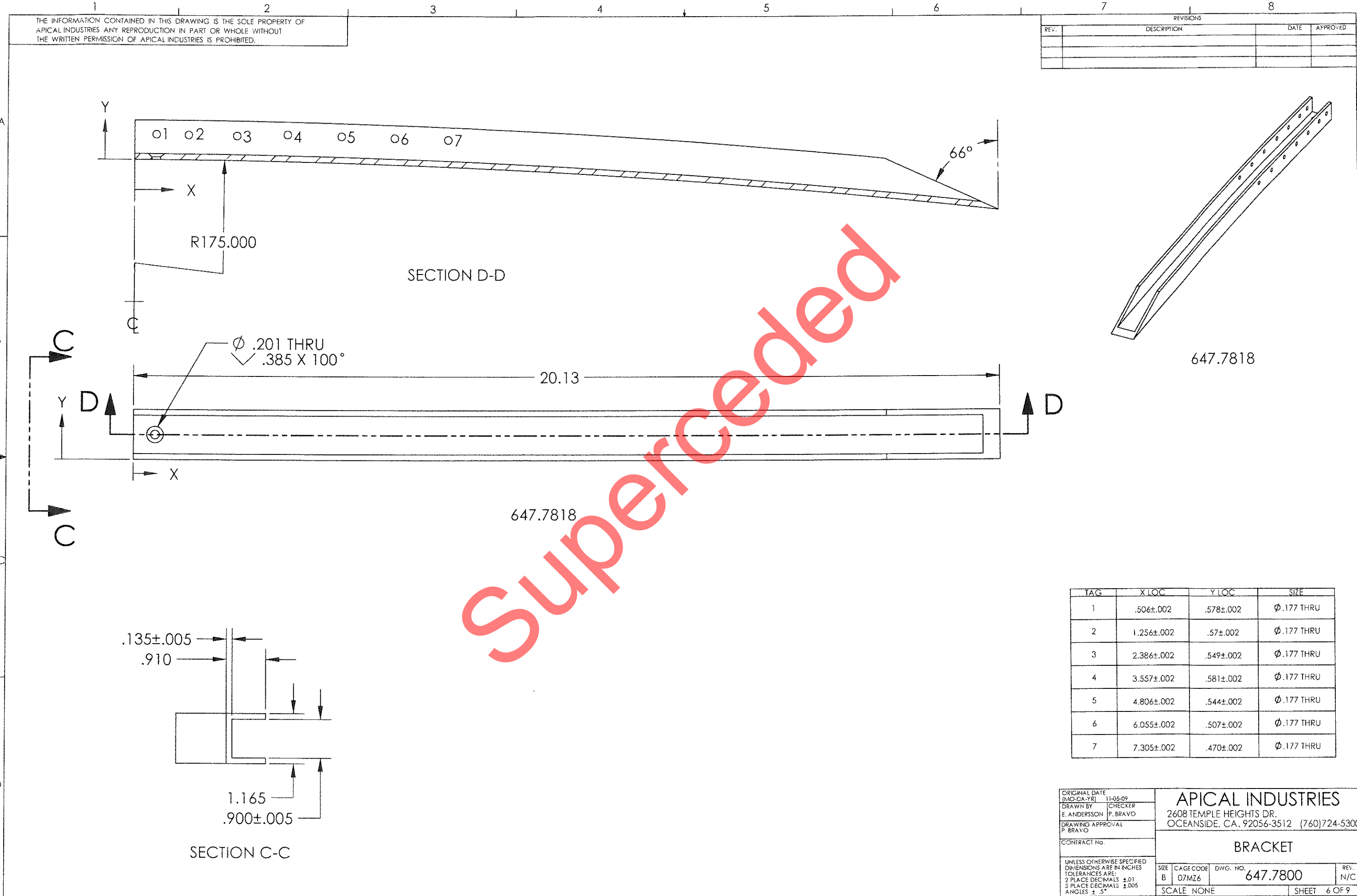
647.7816



647.7817

647.7816 SHOWN  
647.7817 OPPOSITE

ORIGINAL DATE (MO-DA-YR) 11-05-09		APICAL INDUSTRIES	
DRAWN BY E. ANDERSSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		BRACKET	
DRAWING APPROVAL P. BRAVO		SCALE NONE	
CONTRACT No.		SHEET 5 OF 9	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. N/C
		CAGE CODE 07M26	DWG. NO. 647.7800





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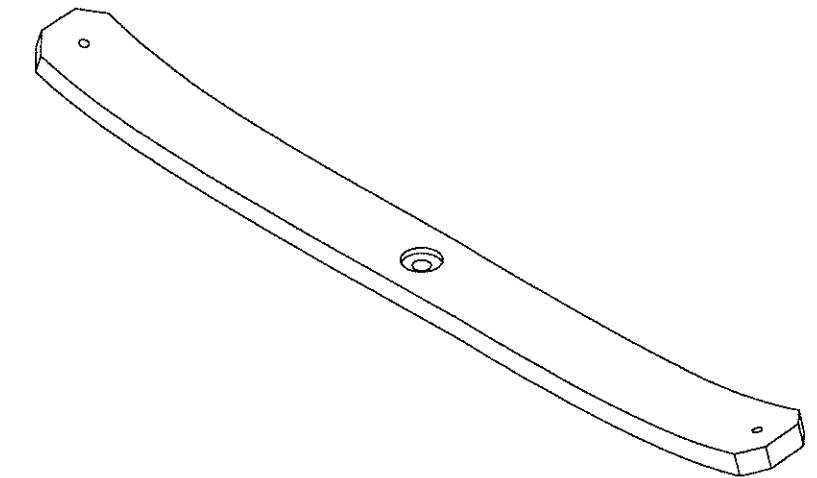
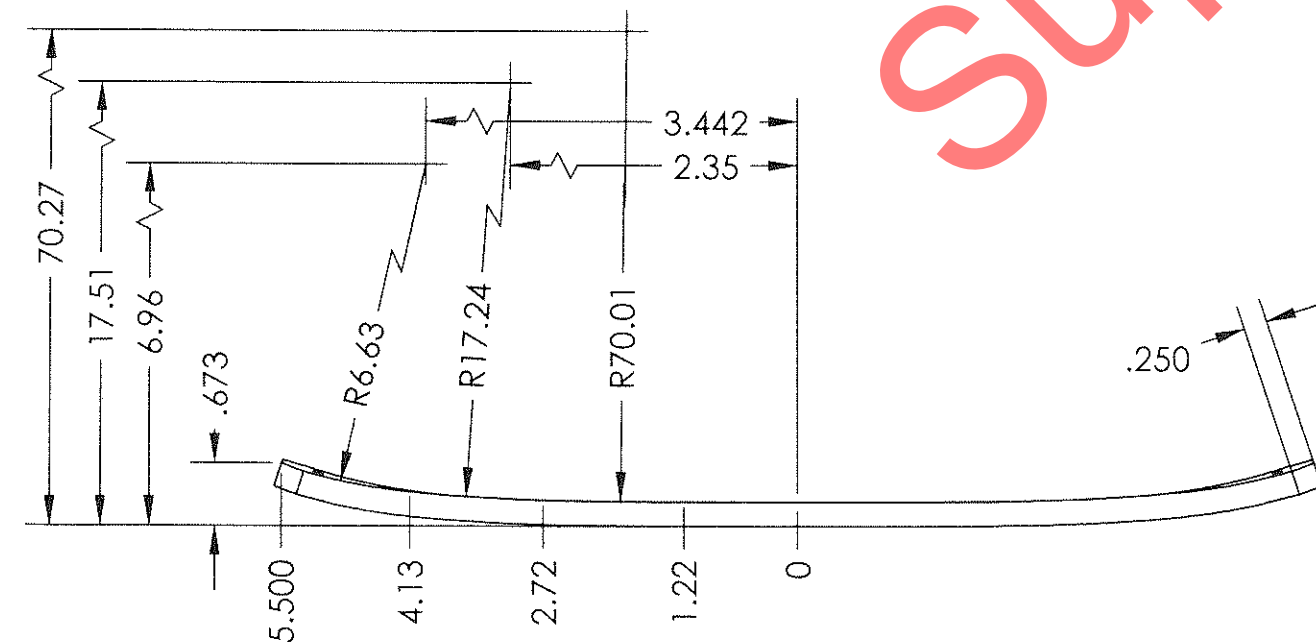
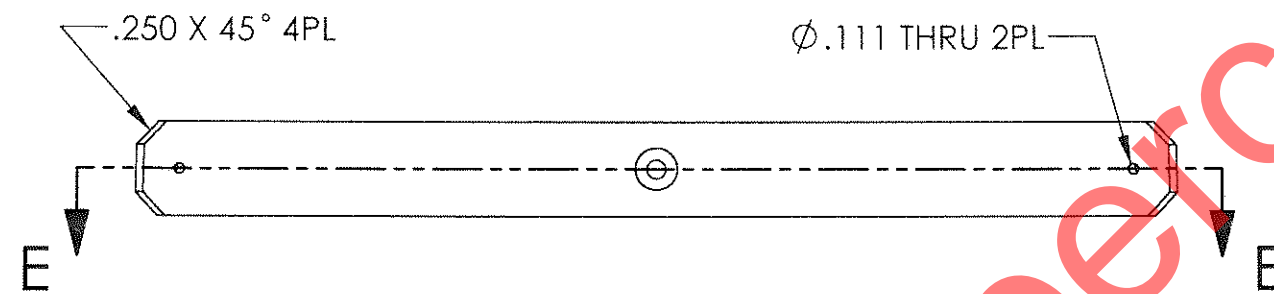
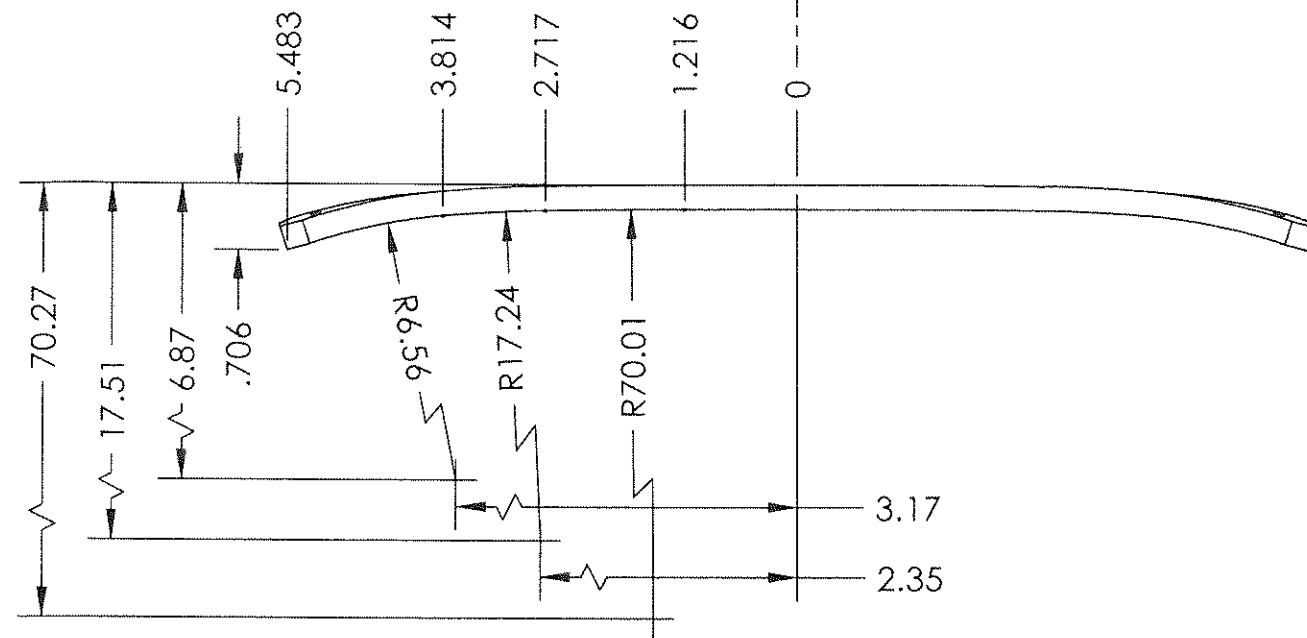
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

A

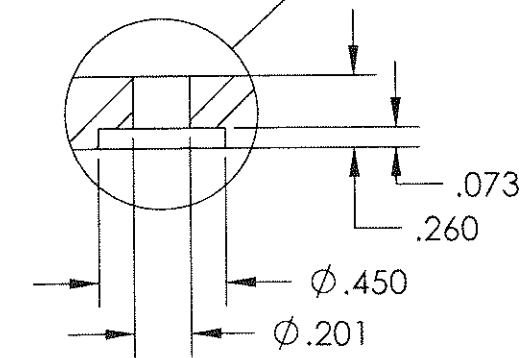
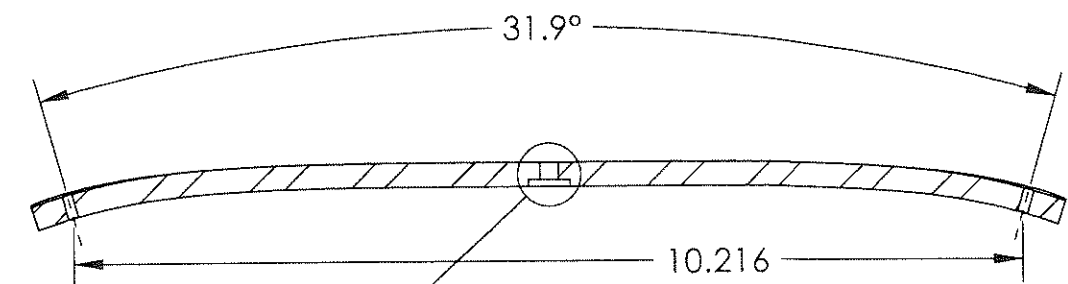
B

C

D



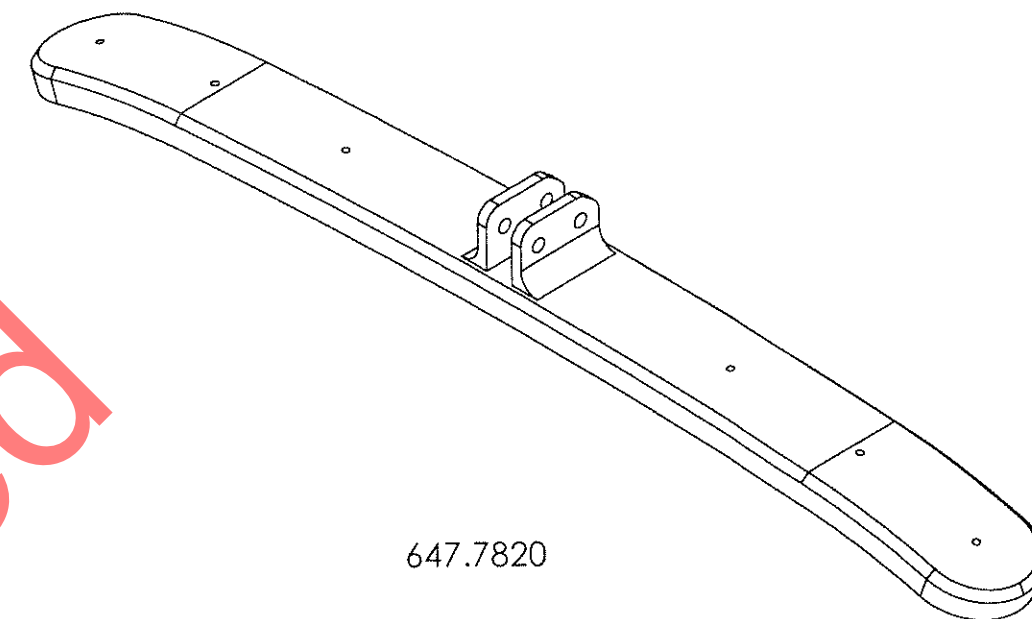
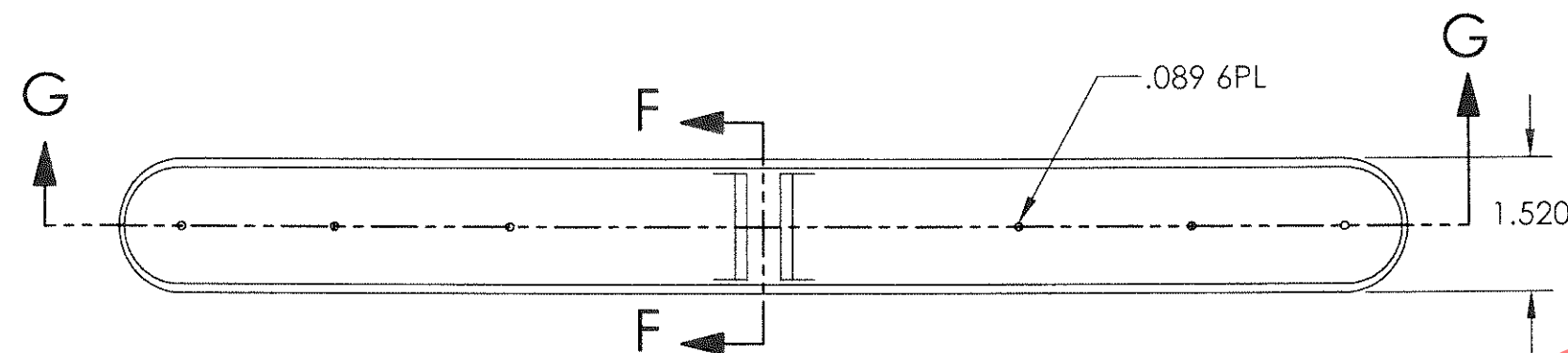
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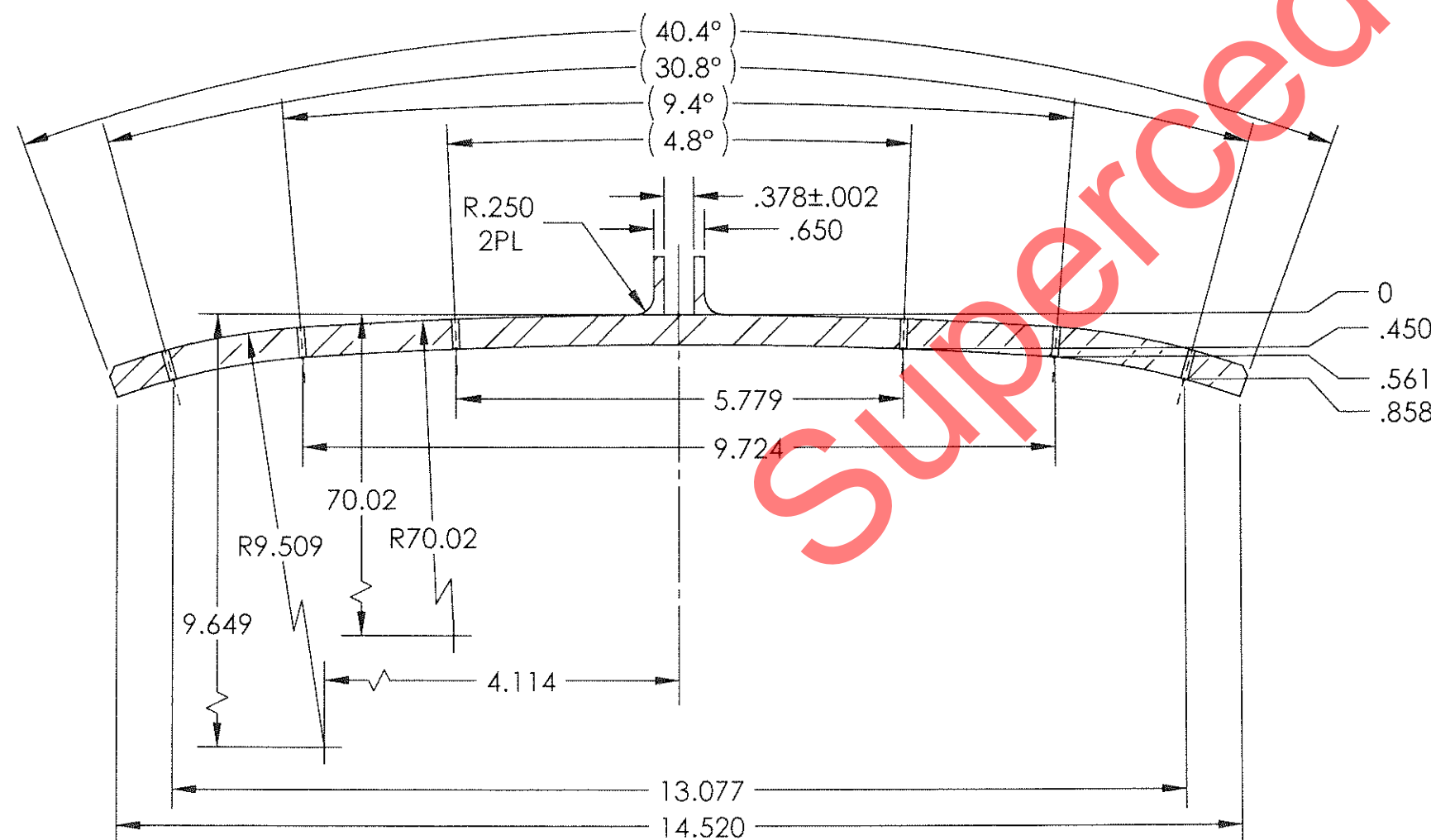
ORIGINAL DATE (MO-DA-YR) 11-05-03		APICAL INDUSTRIES	
DRAWN BY E. ANDERSSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		BRACKET	
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. N/C
		CAGE CODE 07MZ6	DWG. NO. 647.7800
		SCALE NONE	SHEET 7 OF 9

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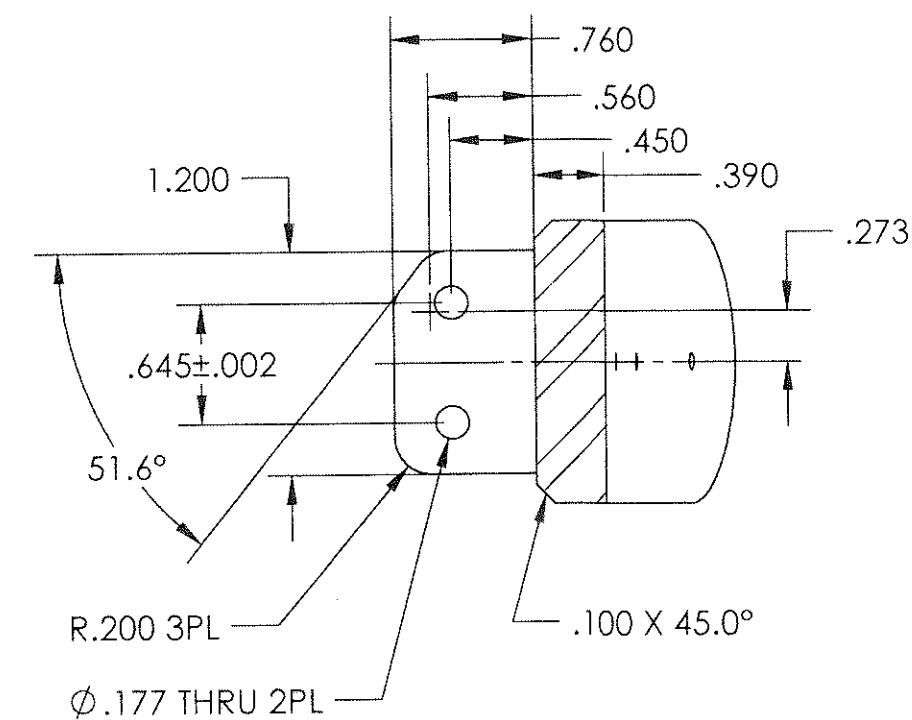
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



647.7820



SECTION G-G

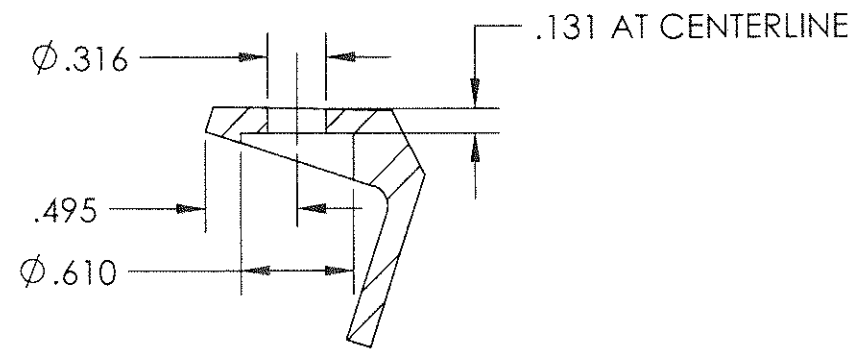
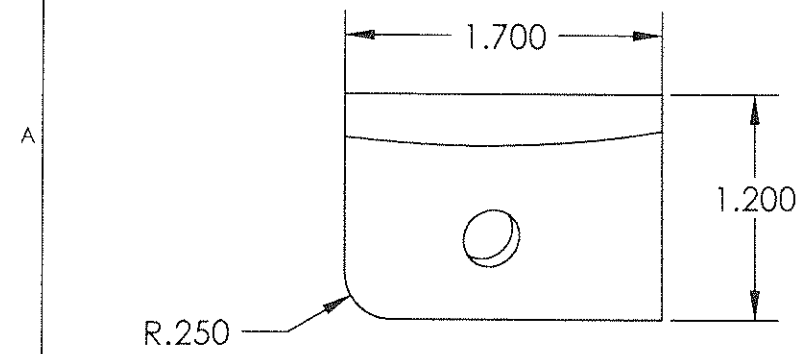


SECTION F-F

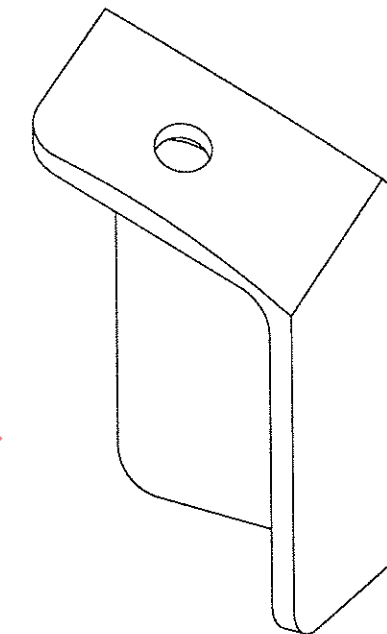
ORIGINAL DATE MO-DA-YR	11-05-09	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY E. ANDERSSON	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO		BRACKET			
CONTRACT NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.003 ANGLES ±.5°		SIZE	CAGE CODE	DWG. NO.	REV.
		B	07M26	647.7800	N/C
		SCALE NONE		SHEET 8 OF 9	

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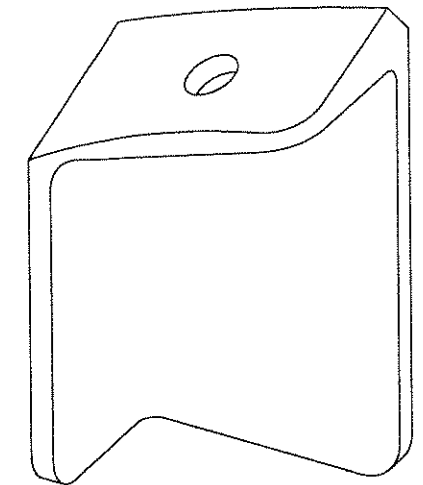
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



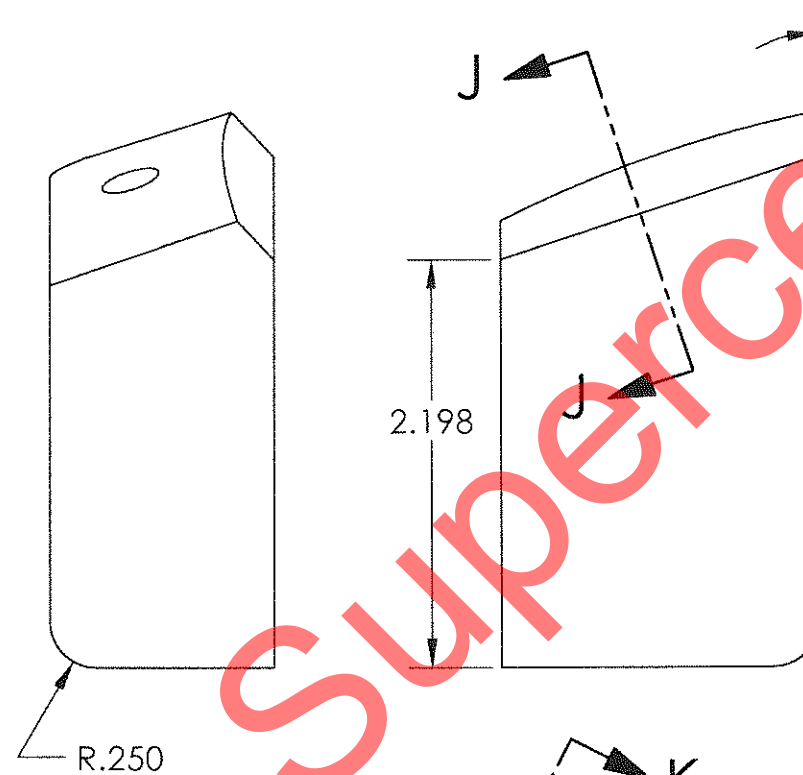
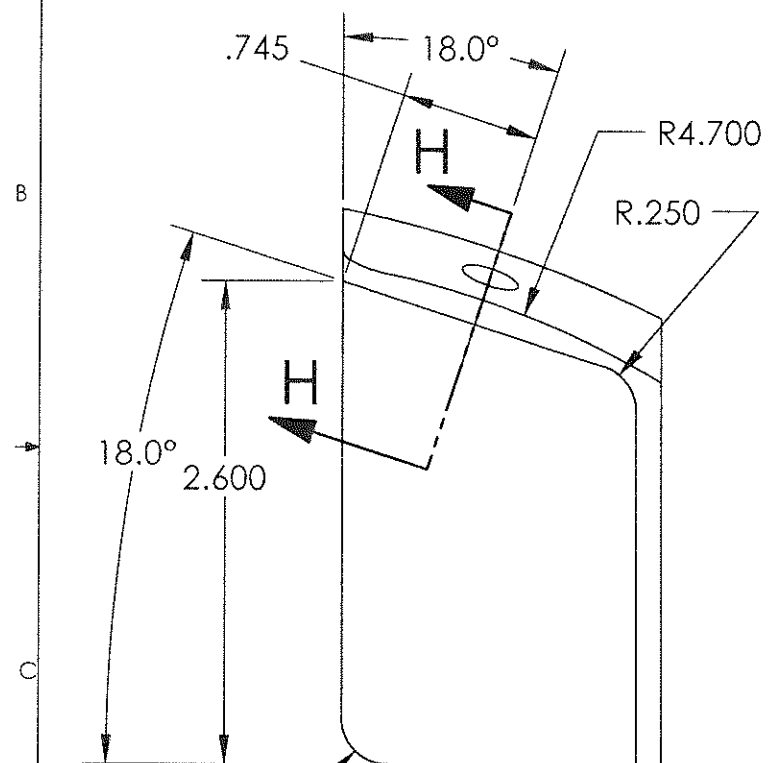
SECTION H-H



647.7821

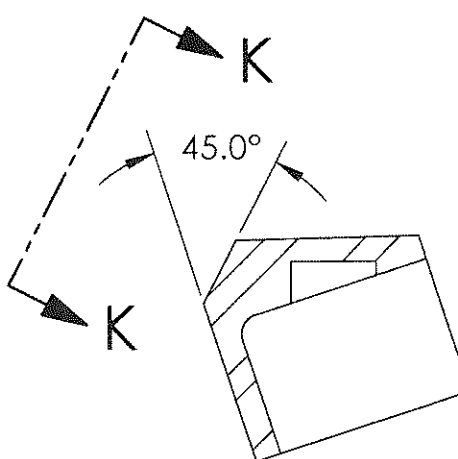


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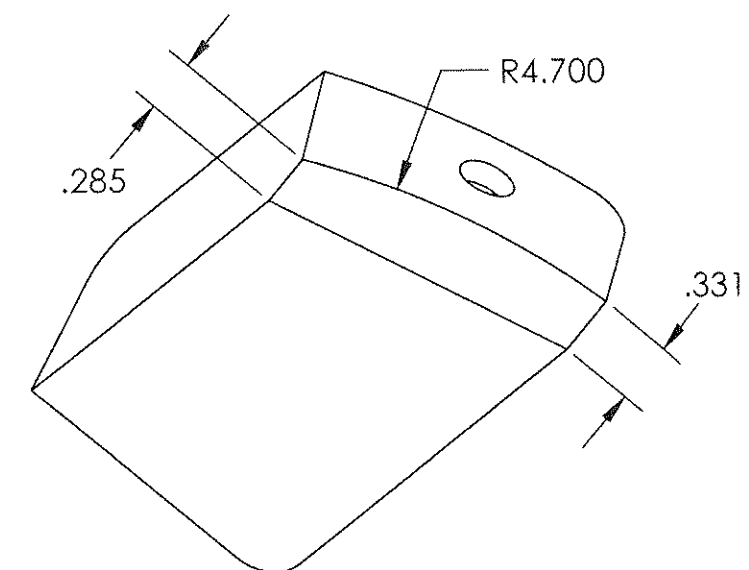


2.198

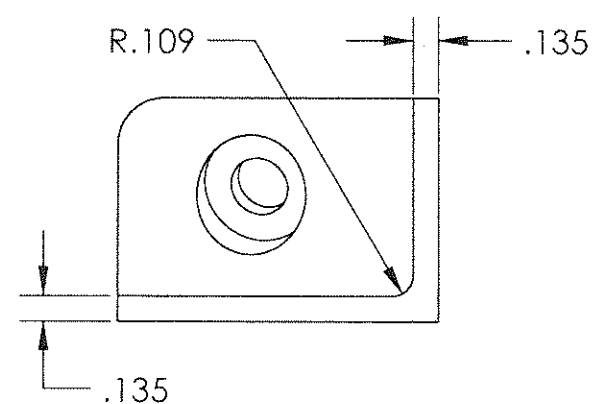
R.250



SECTION J-J



SECTION K-K



647.7821 SHOWN  
647.7822 OPPOSITE

ORIGINAL DATE (MO-DA-YR) 11-05-09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA, 92056-3512 (760)724-5300			
DRAWN BY: E. ANDERSSON CHECKER: P. BRAVO					
DRAWING APPROVAL P. BRAVO					
CONTRACT NO.		BRACKET			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°					
SIZE B	CAGE CODE 07M76	DWG. NO. 647.7800	REV. N/C		
SCALE NONE			SHEET 9 OF 9		

APICAL INDUSTRIES

2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

BRACKET